

**REMARKS**

Claims 3-12 and 19-21 are pending in this application. Claims 3-12 and 19-21 are rejected.

**REJECTION OF CLAIMS UNDER 35 U.S.C. §101**

Claims 3-12 and 19-21 are rejected under 35 U.S.C. §101, because according to the Examiner, the claims as written do not sufficiently distinguish nucleotide molecules and host cells from naturally occurring nucleotide molecules and host cells.

In response, Applicants have amended claims 8 and 19 by adding the word "isolated" before "nucleotide molecule" in claim 8 and before "host cell" in claim 19, as suggested by the Examiner. Applicants respectfully submit that these amendments overcome the §101 rejection. Accordingly, Applicants respectfully request that the Examiner withdraw this rejection.

**REJECTION OF THE CLAIMS UNDER 35 U.S.C. §112, first paragraph**

Claims 8-9 are rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains to make or use the invention. According to the Examiner, the claims read on a cell in a transgenic animal.

In response, Applicants respectfully submit that the §112, first paragraph rejection is rendered moot by the amendment to claim 8 adding the word "isolated"

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before the phrase "host cell", as suggested by the Examiner. Accordingly, Applicants respectfully request that the Examiner withdraw this ground of rejection.

In view of the amendments and remarks above, Applicants respectfully request withdrawal of the Examiner's grounds of rejection and allowance of the pending claims.

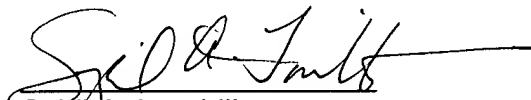
The Commissioner is hereby authorized to charge any additional fees which may be required for this amendment, including all fees pursuant to 37 C.F.R. § 1.17 for its timely consideration, or credit any overpayment to Deposit Account No. 13-4500. Order No. 3479-4000US1. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

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